BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISION

WARD 7: BYATARAYANAPURA

Name of work:- Improvements to roads and drains of Khasinagara main road (balance work)in ward no.07, Byatarayanapura

Estimated Cost:- 40.00 Lakhs.

P-CODE:-

Job sheet:-

Estimate Cost:- 40.00 lakhs

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S.N	DESCRIPTION OF WORK	Unit	N	L	B	D	QTY	RATE	AMOUNT
1	2	3	4	5	6	7	8	9	10
1	KSRRB 300-1. Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications.. Pg No.141.Item No.19.1)								
	Basic Rate:	cum	**82.00**						
	Area Weightage @ 6%		4.92						
	Total		**86.92**						
	RCC New drain (LHS)		1	200.00	1.00	1.00	200.00		
	Desilting of Existing drain		1	660.00	1.00	0.90	594.00		
	overburden earth		1	98.00	0.60	0.90	52.92		
	culvert		3	6.00	1.80	1.00	32.40		
					TOTAL		**879.32**	86.92	76431.00
2	KSRB 4-1.3: Providing and laying in position plain cement concrete of nominal mix 1:4:8 using 40mm and down size graded granite metal machine mixed, conrete laid in layers not exceeding 15 cms. Thick well compacted in foundation and plinth, including cost of all materials labour, HOM of machinery, curing complete as per specification . **(Pg.No.12, It.4.3)**								
	Basic Rate:	cum	4867.00						
	Area Weightage @ 6%		292.02						
	Total		5159.02						
	RCC New drain (LHS)-Bottom		1.00	200.00	1.00	0.15	30.00		
	culvert- Bottom		3.00	6.00	1.80	0.15	4.86		
	For ramps- (Length for shoulder drains deducted)		1.00	660.00	0.30	0.15	29.70		
					TOTAL		**64.56**	5159.02	333067.00
3	KSRB 4.2.2: Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 Kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastizers @ 3lts confirming to IS 9103-1999 RE affirmed - 2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, stair case lintels, retaining walls return walls, walls(anythickness) including attached plasters columns piers abutments pillars posts struts butresses string or lacing courses parapets copings, bed blocks , plain windows cills fillets etc., including cost of all materials labour HOM of machinery curing complete as per specifications. Seocifications No. KBS 4.1,4.6 (Page NO. 13, Item NO. 4.11)								
	Basic Rate:	cum	6011.00						
	Area Weightage @ 6%		360.66						
	Total		6371.66						
	RCC Drain-Bottom								

	New drain (LHS)		1.00	200.00	0.90	0.15	27.00		
	Rcc drain - side wall								
	New drain (LHS)	**2x2**	2.00	200.00	0.15	0.90	54.00		
							81.00	6371.66	516105.00
4	Providing **TMT Steel Reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.(Page No.17, Item No.17)								
	Basic Rate:	Tonne	60607.00						
	Area Weightage @ 6%		3636.42						
	Total		64243.42						
	Reinforcement for side wall						81.00		
			At 60 Kg % per cum				**4.86**	64243.42	312224.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / **rectangular sla**bs **/side walls** polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge.(Page No.16, Item NO.4.32)								
	Basic Rate:	Sqm	366.00						
	Area Weightage @ 6%		21.96						
	Total		387.96						
	SIDE WALL								
	New drain (LHS)	1x4	4	200.00		0.90	720.00		
							720.00	387.96	279332.00
6	KSRB 5.3-1:Providing and constructing granite /trap/basalt size stone masonry in foundation with cement mortar 1:6, stone hammered dressed in courses not less than 20cms hign, bond stones at two m apart in each course including cost of materials, labour, curing etc., complete as per specifications.(P-235. Item No. 5.6)								
	Basic Rate:	cum	4187.00						
	Area Weightage @ 6%		251.22						
	Total		4438.22						
	Culverts side walls	3x2	6.00	6.00	0.45	0.90	14.58		
					TOTAL		**14.58**	4438.22	64710.00
7	KSRB 5.3-1:Providing ruled pointing of course stone msonry with cement mortar 1:3 20 mm deep, after raking joints to depth of 20 mm nicley lining, including cost of materials, labour, curing etc., complete as per specifications and directions of the engineer-in-charge. (P-112, Item No. 15.8)								
	Basic Rate:	cum	33.00						
	Area Weightage @ 6%		1.98						
	Total		34.98						
	Culverts side walls	3x2	6.00	6.00		0.90	32.40		
					TOTAL		**32.40**	34.98	1134.00

8	KSRB4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.69 cum and fine aggragtes @ 0.459cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications. (Page No. 12. Item No. 4.6)								
	Basic Rate:	Sqm	5441.00						
	Area Weightage @ 6%		326.46						
	Total		5767.46						
	For ramps- (Length for shoulder drains deducted)		1.00	660.00	0.30	0.10	19.80		
	culvert bottom		3.00	6.00	0.60	0.10	1.08		
	culvert side wall coping	3x2	6.00	6.00	0.45	0.10	1.62		
							22.50	5767.46	129768.00
9	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications (								
	DETA RATE	**Sqm**							
	Covering Slab								
	From Entrance to lake of khasinagara mian road		1	860		0.90	774.00		
							774.00	2100.00	1625400.00
10	Providing and fixing 20 cm thick pre cast RCC covering slab using reinforced cement concrete M 20 mix with stone aggregate 20 mm and down size including centring shuttering reinforcement and bar bending machine mixed concrete laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing comlete as per								
	DETA RATE	**Sqm**							
	Covering Slab								
			30	2		0.60	32.40		
							32.40	5111.00	165596.40
11	Providing and fixing MS Grating 260x260 mm(Page No.VIII, Sl No.237, code No.0771)								
	Basic Rate:	Nos	89.00						
	Area Weightage @ 6%		5.34						
	Total		94.34						
	For shoulder drians								
	4th A cross		30				30.00		
	5th A cross		20				20.00		
	6th A cross		20				20.00		
							70.00	94.34	6603.80
12	KSRRB M100-1 Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH Chapter 1 (Page 118, item No. 17.1)								
	Basic Rate	cum	**68.00**				879.32	106.00	93208.00
	Rs. 2.50 Tonne Km.								

	Average Weight of earth 1.28 Tonne/Km.								
	For 10 Km								
	Rs.2.50X1.28TonneX10Km		32.00						
	Total		100.00						
	Add Area Weightage6%		6.00						
			106.00						
13						Sub Total			3603579.20
14				Add 10% Third party inspection charges					360357.92
15				Add 1% Labour cess charges					36035.79
16				Miscelleneous charges					27.09
17						Total			4000000.00
	1)This is certified that the work spot comes under BBMP limits only.								
	2) The work spot is inspected by me								
	3) The items Provided in the Estimate are quite Essential								
	4)The rates are as per CSR of 2016-17 year of PWD Bangalore Circle.								
	N.D.								
	Asst.Engineer		Asst.Exe.Engineer			Executive Engineer		23/12	
	Ward no.7		Kodigehalli Sub-division			Byatrayanapura Division			
			B.B.M.P.			B.B.M.P.			

ADMINISTRATIVE APPROVAL

Accorded For Rs. Forty lakhs only

Head of A/c..... P-3333

Div. Ref. No. 50/17-18 Date. 23/12/17

AE 23/12 EE(BTP) 23/12

Technical Sanction

Accorded For 40.00 lakh Rs.

Head of A/C..... P3333

CER NO :..... 528 Dt... 12/01/18

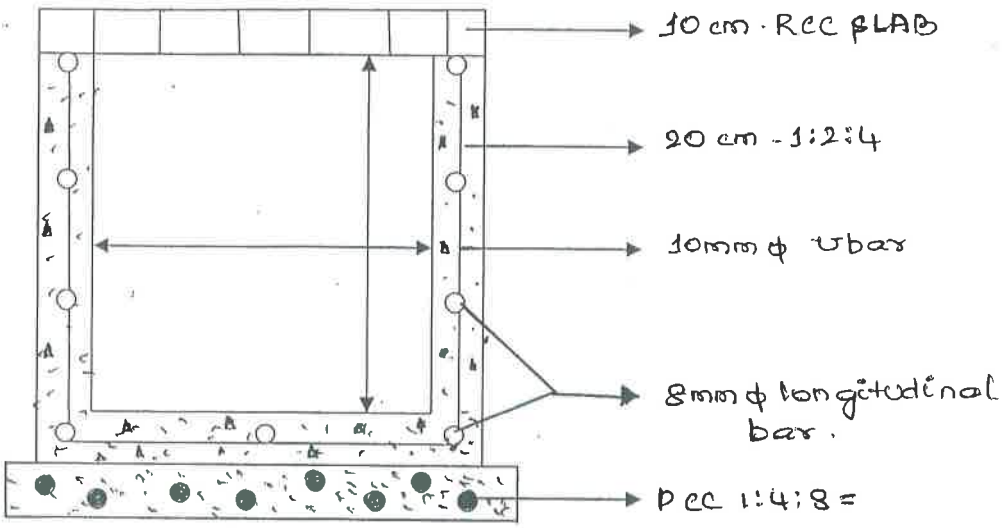
TA CE (YNK)

Google Improvements to roads and drains of Khasinagara main road (balance work)in ward no.07, Byatarayanapura

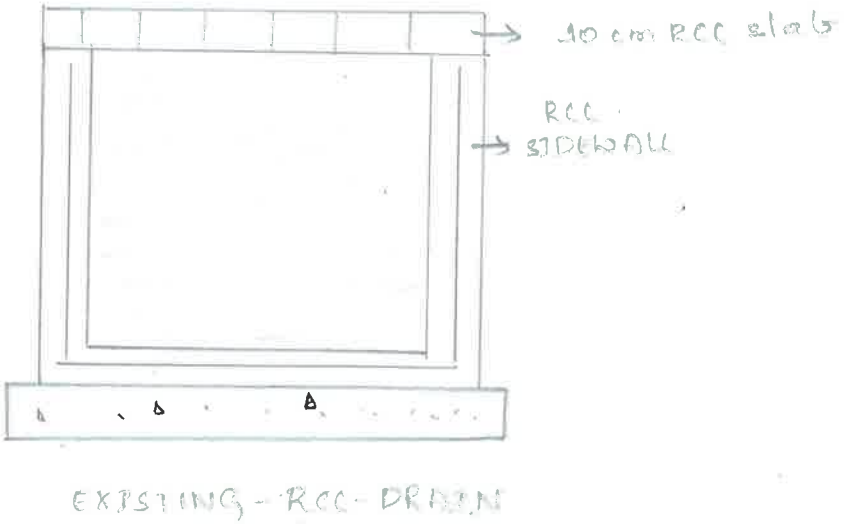
Applied N.D
AE(ast)

INDEX
Existing drain
New RCC drain
culvert

Name of work: Improvements to roads and drains of Khasinagara main road (balance work) in Ward no.07, Byatarayanapura :



CROSS SECTION OF RCC DRAIN



Assistant Engineer
WardNo.07

Assistant Executive Engineer
Kodigehalli Sub Divsion